

STN SEARCH TRANSCRIPT 10/681,205

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 14:46:27 ON 24 MAR 2005

=> FILE REC COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 14:46:32 ON 24 MAR 2005
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 MAR 2005 HIGHEST RN 847137-45-5
DICTIONARY FILE UPDATES: 23 MAR 2005 HIGHEST RN 847137-45-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

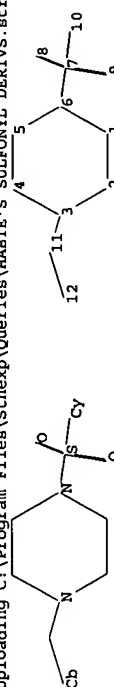
Please note that search-term pricing does apply when conducting SmartSELECT searches.

* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added. *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> Uploading C:\Program Files\Stnexp\Queries\HABTE'S SULFONYL DERIVS.STR



chain nodes : 7 8 9 10 11 12
ring nodes : 1 2 3 4 5 6
chain bonds :

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTAI623ZCT

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 01 New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS 4 OCT 28 KOREAPAT now available on STN
NEWS 5 NOV 30 PHAR reloaded with additional data
NEWS 6 DEC 01 LISA now available on STN
NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004
NEWS 8 DEC 15 MEDLINE update schedule for December 2004
NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN
NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED
NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and February 2005
NEWS 17 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS 18 FEB 10 STN Patent Forums to be held in March 2005
NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
NEWS 20 FEB 28 PATIDAFULL - New display fields provide for legal status data from INPADOC
NEWS 21 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 22 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 23 MAR 02 GBFULL: New full-text patent database on STN
NEWS 24 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 25 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 26 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 27 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 28 MAR 22 PATIDAFULL - New patent database available
NEWS 29 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.03c(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

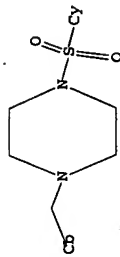
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (General Information)

3-11 6-7 7-8 7-9 7-10 11-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 3-4 3-11 4-5 5-6 6-7 7-8 7-9 7-10
exact bonds :
11-12

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:CLASS 12:Atom
Generic attributes :
10:
Type of Ring System : Polycyclic

L1 STRUCTURE UPLOADED

=> D L1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1
SAMPLE SEARCH INITIATED 14:46:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1950 TO ITERATE
51.3% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: BATCH **COMPLETE**
PROJECTED ANSWERS: 36352 TO 41648
1358 TO 2542
L2 50 SEA SSS SAM L1

=> FILE CAPLUS
COST IN U.S. DOLLARS
FULL ESTIMATED COST
SINCE FILE ENTRY TOTAL
0.43 0.64
SESSION

FILE 'CAPLUS' ENTERED AT 14:46:50 ON 24 MAR 2005
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FILE COVERS 1907 - 24 Mar 2005 VOL 142 ISS 13
FILE LAST UPDATED: 23 Mar 2005 (20050323/ED)
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L2
L3 12 L2

=> D 1-12 IBIB ABS HITSTR

L3 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:748789 CAPLUS
DOCUMENT NUMBER: 137:263073
TITLE: Preparation of benzodiazepines as inhibitors of
farnesyl protein transferase
INVENTOR(S): Ding, Charles Z.; Hunt, John T.; Leftheris, Katerina;
Bride, Rajeev S.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: U.S., 25 pp., Cont.-in-part of U. S. Ser. No. 161.801,
abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6458783	B1	20021001	US 2000-556740	20000421
WO 2001081322	A1	20011101	WO 2001-US11209	20010406
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TZ, UA, UG, US, VZ, VN, YU, ZA, ZW, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CU, CV, CW, CX, CY, CZ, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GH, GI, GJ, GK, GL, GM, GN, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ				

PRIORITY APPLN. INFO.:
US 1997-60823P
US 1998-161801
US 2000-556740
OTHER SOURCE(S):
GI
MARPAT 137:263073

INVENTOR (S) : Zhu, Bing-yan; Su, Ting; Li, Wenhao; Goldman, Erick A.; Zhang, Pengjie; Jia, Zhaozhong Jon; Scarborough, Robert M.
 PATENT ASSIGNEE (S) : Cor Therapeutics, Inc., USA
 SOURCE : PCT Int. Appl., 135 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE : Patent
 LANGUAGE : English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

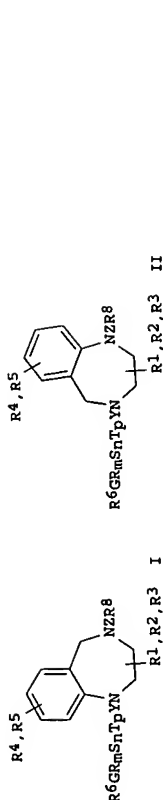
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002026734	A1	20020404	WO 2001-US30313	20011001
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AU, AZ, BY, BG, BR, CA, CH, CY, DE, DK, EE, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GT, GW, ML, MR, NE, SN, TD, TG	AA	20020404	CA 2001-2422873	20011001
AU 2002011280	A5	20020408	AU 2002-11280	20011001
EP 1322643	A1	20030702	EP 2001-979304	20011001
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CR, AL, TR	T2	20040402	JP 2002-531118	20011001
JP 2004050958	A	20040706	BR 2001-7282	20011001
BR 2001007282	A1	20040415	US 2003-381927	20030808
US 2004072860			US 2000-236393P	P 20000929
PRIORITY APPL. INFO.:			WO 2001-US30313	W 20011001
OTHER SOURCE(S):			MARPAT 136:279479	

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I or II; A = MeNH(CNH), 1-methylimidazol-2-yl; PrNH(CNH), etc. R = H, alkyl, cycloalkyl, etc.; Q = III-VII; R1 = H, halo, alkyl, etc.; J1 = (un)substituted Ph, pyridyl, pyrimidinyl, furyl, thienyl; J2 = (un)substituted 2-naphthyl, 2-benzothienyl, etc.; n = 0-2; m = 1-2; p = 0-1], having activity against mammalian factor Xa (no data given), and useful in vitro or in vivo for preventing or treating conditions in mammals characterized by undesired thrombosis, were prepared E.g., a multi-step synthesis of VIII was given.

IT 406489-04-1P 406489-17-6P 406489-35-8P
 406489-59-6P 406489-75-6P 406489-95-0P
 406490-34-4P 406491-00-7P 406491-39-2P
 406491-63-2P 406491-90-5P 406493-54-7P
 406493-87-6P 406494-10-8P 406495-04-3P
 406495-32-7P 406495-88-3P 406496-11-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); B10L (Biological study); PREP (Preparation); USES (Uses)
 (Preparation of piperazin-2-one amides as inhibitors of factor Xa)

RN 406489-04-1 CAPLUS
 CN Benzenecarboximidamide, 4-[[4-[[6-chlorobenzo(b)thien-2-yl)sulfonyl]-2-oxo-1-piperazinyl)methyl]-N-(2-cyanoethyl)-N-methyl- (9CI) (CA INDEX NAME)

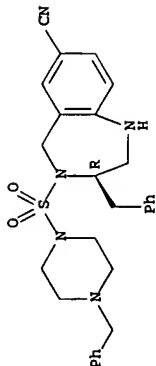


AB Title compds. [I, II; m, n, p = 0, 1; Z = null, CHR9, SO2, CO, CO2, O, NR10, SO2NR11, CONR12, C(=N), etc.; Y = null, CHR23, SO2, CO, NR24, SO2NR25, CONR26; R1, R2, R3 = H, alkoxy, carbonyl, aralkyl, cycloalkyl, CN, carboxy, (un)substituted alkyl, alkenyl, alkynyl, aryl, heterocyclyl, carbamyl, any 2 of R1, R2, R3 = atoms to form a cycloalkyl ring; R4, R5 = H, halo, NO2, CN, amino, acyl, carbamoyl, sulfamoyl, etc.; R4R5 = atoms to form a ring; R6, R9, R10, R11, R12, R23, R24, R25, R26 = H, (un)substituted alkyl, aryl; R8 = H, aralkyl, cycloalkyl, (un)substituted alkyl, alkenyl, alkynyl, aryl, heterocyclyl; R, S, T = (un)substituted methylene, amino; G = S, SO2NH, NHO2, N(OH)CO, CON(OH), hydroxyphenylene, mercaptophenylene, heterocycles other than imidazole, etc.], were prepared for inhibiting tumors and treating diseases associated with signal transduction pathways. Thus, cycloaddn. of isatoic anhydride and glycine Et ester.HCl gave 2,3,4,5-tetrahydro-1H-benzodiazepine-2,5-dione (40t) which was reduced with LiAlH4 (84t) and treated with 1-naphthoyl chloride to give the amide (89t). The resulting 2,3,4,5-tetrahydro-4-(1-naphthylcarbonyl)-1H-1,4-benzodiazepine was reductively alkylated with N-Boc-S-tritylcysteine aldehyde and NaBH(OAc)3 followed by deprotection with TFA and conversion to 1-(2-amino-3-mercaptopropyl)-2,3,4,5-tetrahydro-4-(naphthalenylcarbonyl)-1H-1,4-benzodiazepine hydrochloride. Title compds. inhibited farnesyl protein transferase with IC50 = 0.1 nM to 100 µM.

IT 371150-63-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of benzodiazepines as inhibitors of farnesyl protein transferase)

RN 371150-63-9 CAPLUS
 CN 1H-1,4-Benzodiazepine-7-carbonitrile, 2,3,4,5-tetrahydro-3-(phenylmethyl)-4-[[4-(phenylmethyl)-1-piperazinyl)sulfonyl]-, (3R)- (9CI) (CA INDEX NAME)

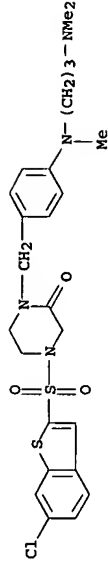
Absolute stereochemistry.



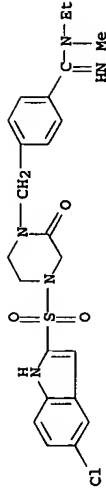
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:256255 CAPLUS
 DOCUMENT NUMBER: 136:279479
 TITLE: Preparation of piperazin-2-one amides as inhibitors of factor Xa

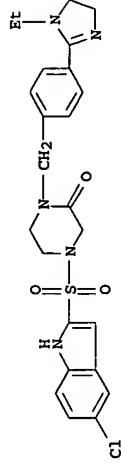
CN Piperazinone, 4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-1-[[4-[(3-(dimethylamino)propyl)methylamino]phenyl]methyl]- (9CI) (CA INDEX NAME)



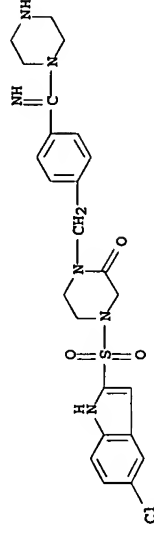
RN 406490-34-4 CAPLUS
CN Benzenecarboximidamide, 4-[[4-[(5-chloro-1H-indol-2-yl)sulfonyl]-2-oxo-1-piperazinyl]methyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



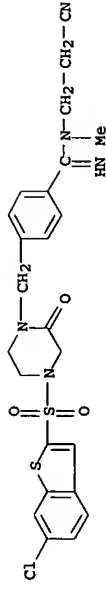
RN 406491-00-7 CAPLUS
CN Piperazinone, 4-[[4-[(5-chloro-1H-indol-2-yl)sulfonyl]-1-[[4-(1-ethyl-4,5-dihydro-1H-imidazol-2-yl)phenyl]methyl]- (9CI) (CA INDEX NAME)



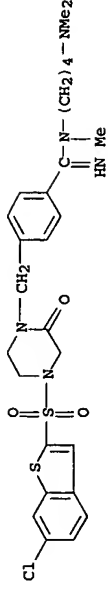
RN 406491-39-2 CAPLUS
CN Piperazine, 1-[[4-[[4-[(5-chloro-1H-indol-2-yl)sulfonyl]-2-oxo-1-piperazinyl]methyl]phenyl]iminomethyl]- (9CI) (CA INDEX NAME)



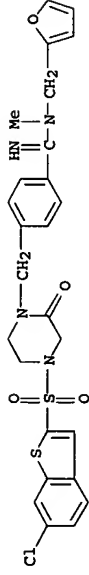
RN 406491-63-2 CAPLUS
CN Glycine, N-[[[4-[[4-[(5-chloro-1H-indol-2-yl)sulfonyl]-2-oxo-1-piperazinyl]methyl]phenyl]methyl]methylamino] (methylamino)methylene]-, methyl ester (9CI) (CA INDEX NAME)



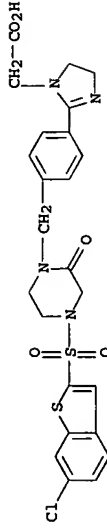
RN 406489-17-6 CAPLUS
CN Benzenecarboximidamide, 4-[[4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-2-oxo-1-piperazinyl]methyl]-N-[4-(dimethylamino)butyl]-N-methyl- (9CI) (CA INDEX NAME)



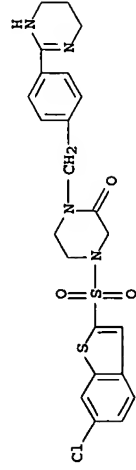
RN 406489-35-8 CAPLUS
CN Benzenecarboximidamide, 4-[[4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-2-oxo-1-piperazinyl]methyl]-N-(2-furanylmethyl)-N-methyl- (9CI) (CA INDEX NAME)



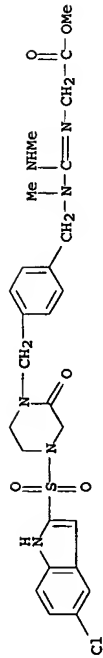
RN 406489-59-6 CAPLUS
CN 1H-Imidazole-1-acetic acid, 2-[4-[[4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-2-oxo-1-piperazinyl]methyl]phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



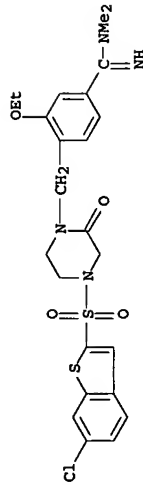
RN 406489-75-6 CAPLUS
CN Piperazinone, 4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-1-[[4-(1,4,5,6-tetrahydro-2-pyrimidinyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



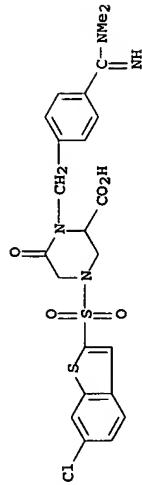
RN 406489-95-0 CAPLUS



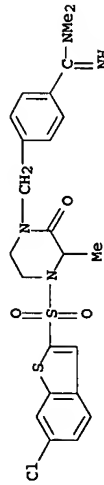
RN 406491-90-5 CAPLUS
CN Benzenecarboximidamide, 4-[[4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-2-oxo-1-piperazinyl]methyl]-3-ethoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)



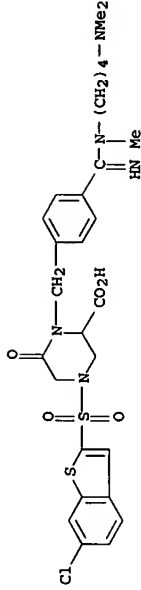
RN 406493-54-7 CAPLUS
CN 2-Piperazinecarboxylic acid, 4-[[4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-1-[[4-[(dimethylamino)iminomethyl]phenyl]methyl]-6-oxo- (9CI) (CA INDEX NAME)



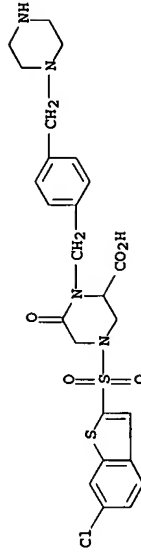
RN 406493-87-6 CAPLUS
CN Benzenecarboximidamide, 4-[[4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-3-methyl-2-oxo-1-piperazinyl]methyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



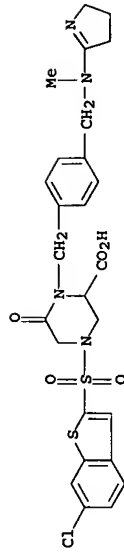
RN 406494-10-8 CAPLUS
CN 2-Piperazinecarboxylic acid, 4-[[4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-1-[[4-[(dimethylamino)butyl]methylamino]methyl]phenyl]methyl]-6-oxo- (9CI) (CA INDEX NAME)



RN 406495-04-3 CAPLUS
CN 2-Piperazinecarboxylic acid, 4-[[4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-6-oxo-1-[[4-[(1-piperazinyl)methyl]phenyl]methyl]- (9CI) (CA INDEX NAME)

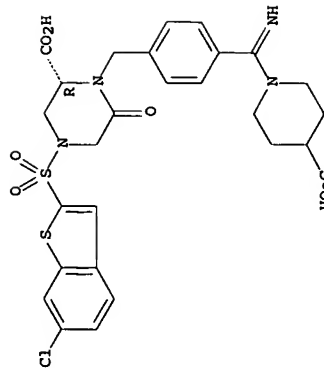


RN 406495-32-7 CAPLUS
CN 2-Piperazinecarboxylic acid, 4-[[4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-1-[[4-[(3,4-dihydro-2H-pyrrrol-5-yl)methylamino]methyl]phenyl]methyl]-6-oxo- (9CI) (CA INDEX NAME)



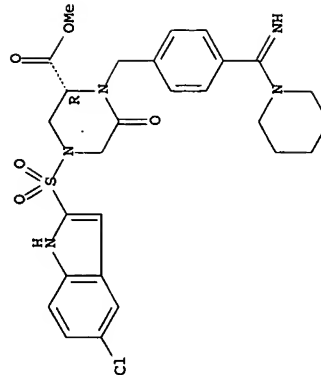
RN 406495-88-3 CAPLUS
CN 2-Piperazinecarboxylic acid, 1-[[4-[(4-carboxy-1-piperidinyl)iminomethyl]phenyl]methyl]-4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-6-oxo- (2R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



406496-11-5 CAPLUS
2-Piperazinecarboxylic acid, 4-[(5-chloro-1*H*-indol-2-yl) sulfonyl]-1-[(4-
(imino-1-piperidinylmethyl)phenyl)methyl]-6-oxo-, methyl ester, (2*R*)-
(9*C*1) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:256243 CAPLUS
 DOCUMENT NUMBER: 136:294851
 TITLE: Preparation of piperazine (hetero)aryl ketones and

INVENTOR(S): Zhu, Bing-Yan; Jia, Zhaozhong Jon; Zhang, Penglie; Huang, Wenrong; Wu, Yanhong; Zuckett, Jingwei Fan; Guldman, Erik A.; Wang, Lingyan; Song, Yonghong; Scarborough, Robert M.

PATENT ASSIGNEE(S): Cor Therapeutics, Inc., USA

SOURCE: PCT Int. Appl., 128 pp.

CODEN: PIXXD2

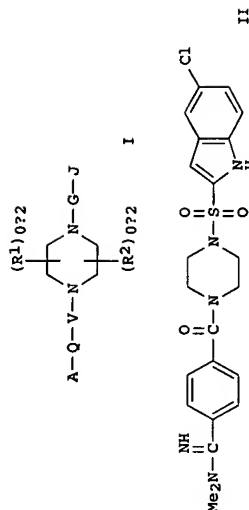
DOCUMENT TYPE: Patent

DOCUMENT TYPE:
LANGUAGE:

LANGUAGE:
FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT. NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002026720	A2	20020404	WO 2001-US30315	20011001
WO 2002026720	A3	20021031		
W: AE, AG, AL, AM, AT, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GR, GU, HK, HU, IL, IN, IS, JP, KE, KG, KP, KR, LC, LK, LR, LS, LT, LU, LV, MA, MG, MN, MW, MX, MY, NZ, NO, NZ, PA, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AS, SZ, TZ, UG, ZW, AT, BE, CH, CY, CZ, DE, DK, ES, FI, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BU, CF, CG, CI, CM, CA, GN, GW, ML, MR, NE, NP, 20011001				
EP 1322610	A2	20030702	EP 2001-975505	20011001
R: AT, BE, CH, DE, DK, ES, FI, GB, GR, IE, IT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 20040082786	A1	20040429	US 2003-381928	20031016
PRIORITY APPLN. INFO.:			US 2000-236161P	P 20000929
			WO 2001-US30315	W 20011001
OTHER SOURCE(S):				
GI				



Title compds. I [wherein A = (un)substituted imidazolyl, tetrahydropyrimidinyl, tetrahydro-1H-1,3-diazepinyl, imidamido(alkyl), guanidyl, amino(alkyl), ammoniomethyl, Ph, pyridinyl, etc.; Q = (un)substituted phenylene, pyrimidinediyl, pyridinediyl, pyrazinediyl, pyrrolediyl, furandiyl, thiophenediyl, piperidinediyl, or pyrrolidinediyl; V = CH₂ or CO; G = CO or SO₂; J = (un)substituted naphthyl, (iso)quinolinyl, quinoxalinyl, indolyl, benzothienophenyl, benzofuranlyl, benzimidazolyl, benzothiazolyl, benzoxazolyl, etc.; R₁ and R₂ = independently H, alkyl, hydroxyalkyl, aminoalkyl, cyanoalkyl, carboxyalkyl, alkoxyalkyl, alkoxyalkoxyalkyl, or carbamoylalkyl; and pharmaceutically acceptable isomers, salts, hydrates, solvates, and prodrugs thereof] were prepared for example, 1-Boc-3-chloro-2-indolylsulfonfyl chloride was coupled with 1-Boc-piperazine in DCM in the presence of pyridine to give the sulfonamide (95%). Deprotection using HCl gas (99%), followed by acylation with 4-cyanobenzoyl chloride in pyridine in the presence of DMAP (73%) and treatment with HCl and dimethylamine, afforded II. I are highly selective inhibitors of factor Xa and are useful for the treatment of diseases characterized by undesired thrombosis or coagulation disorders

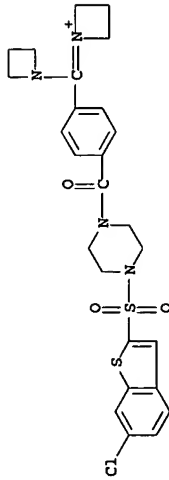
IT (no data).

406714-73-6P 406714-94-1P 406715-09-1P
406717-30-4P 406717-88-2P 406718-30-7P
406718-44-3P 406719-21-9P 406719-42-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(factor Xa inhibitor; preparation of piperazine (hetero)aryl ketones and
sulfones as factor Xa inhibitors for treatment of thrombosis or
coagulation disorders)

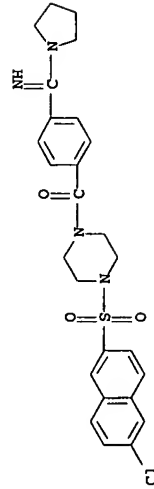
RN 406714-73-6 CAPLUS

CN Azetidinium, 1-[1-azetidiny] [4-[(4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-
1-piperazinyl]carbonyl]phenyl]methylene]- (9CI) (CA INDEX NAME)



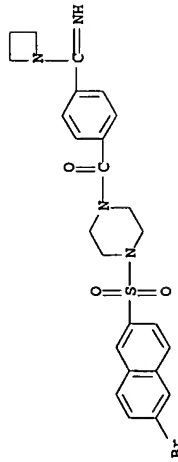
RN 406714-94-1 CAPLUS

CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[4-(imino-1-
pyrrolidinymethyl)benzoyl]- (9CI) (CA INDEX NAME)



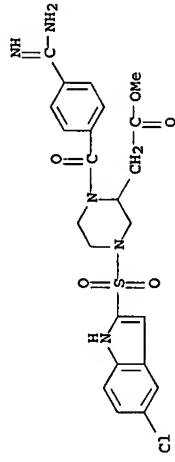
RN 406715-09-1 CAPLUS

CN Piperazine, 1-[4-(1-azetidiny]iminomethyl)benzoyl]-4-[[(6-bromo-2-
naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



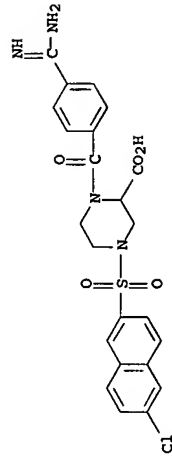
RN 406717-30-4 CAPLUS

CN 2-Piperazineacetic acid, 1-[4-(aminomimomethyl)benzoyl]-4-[[(5-chloro-1H-
indol-2-yl)sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



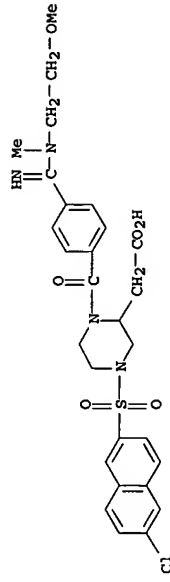
RN 406717-88-2 CAPLUS

CN 2-Piperazineacetic acid, 1-[4-(aminomimomethyl)benzoyl]-4-[[(6-chloro-
2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



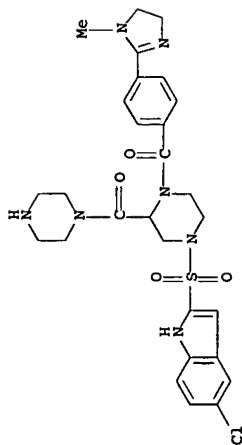
RN 406718-30-7 CAPLUS

CN 2-Piperazineacetic acid, 4-[[(6-chloro-2-naphthalenyl)sulfonyl]-1-[4-
[imino[(2-methoxyethyl)methylamino]methyl]benzoyl]- (9CI) (CA INDEX NAME)

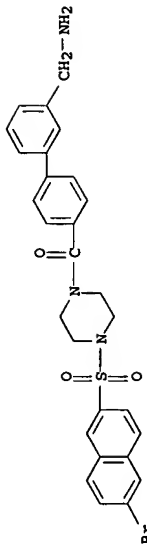


RN 406718-44-3 CAPLUS

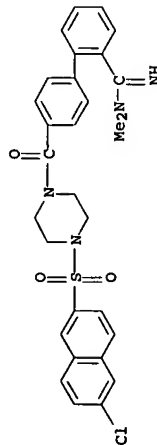
CN Piperazine, 4-[[(5-chloro-1H-indol-2-yl)sulfonyl]-1-[4-(4,5-dihydro-1H-
methyl-1H-imidazol-2-yl)benzoyl]-2-(1-piperazinylcarbonyl)- (9CI) (CA
INDEX NAME)



<p> RN 406719-21-9 CAPLUS CN Piperazine, 1-[[[3'-(aminomethyl)[1,1'-biphenyl]-4-yl]carbonyl]-4-[(6-bromo-2-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME) </p>



SRN	406719-42-4	CAPLUS
CN	Piperazine, 1-[[6-chloro-2-naphthalenyl]sulfonyl]-4-[[2'-(dimethylamino)iminomethyl][1,1'-biphenyl]-4-yl]carbonyl]-	(9CI) (CA INDEX NAME)



CAPLUS ANSWER 4 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 2001:798204 CAPLUS
 135:344509
 PREPARATION OF non-imidazole benzodiazepine inhibitors
 of farnesyl protein transferase
 Ding, Charles Z.; Hunt, John T.; Leftheris, Katerina;
 Bhide, Rajeev S.;
 Bristol-Myers Squibb Company, USA
 PATENT ASSIGNEE(S) :
 PCT Int. Appl., 77 pp.
 CODEN: FIXXD2
 Patent
 English
 DOCUMENT TYPE :
 LANGUAGE:
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

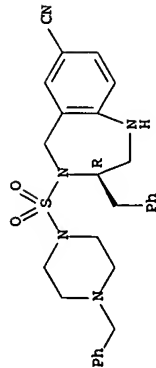
[illegible]

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I and II [wherein m, n, and p = independently 0 or 1; Z = null, CHR23, SO2, CO, CO2, O, NR10, SO2NR11, CONR11, C(=NCN), etc.; Y = null, CHR23, SO2, CO, NR24, CONR25, or CONR26; R1, R2, and R3 = independently H, alkoxy, carbonyl, aralkyl, cycloalkyl, CN, carboxy, or (un)substituted alkyl, alkenyl, alkynyl, aryl, heterocyclo, or carbamyl; or any 2 of R1, R2, and R3 may join to form a cycloalkyl ring; R4 and R5 = independently H, halo, NO2, CN, amino, acyl, carbamoyl, sulfinamyl, etc.; or R3 and R5 may join together to form a ring; R6, R9, R10, R11, and R12, R23, R24, R25, and R26 = independently H or (un)substituted alkyl or aryl; R8 = H, aralkyl, cycloalkyl, or (un)substituted alkyl, alkenyl, alkynyl, aryl, or heterocyclo; R, S, and T = independently (un)substituted methylene or amino; G = S, SO2NH, NHO2, N(OH)CO, CON(OH), hydroxyphenylene, mercaptophenylene, heterocycles other than imidazole, etc.; and enantiomers, diastereomers, or pharmaceutically acceptable salts, prodrugs, or solvates thereof] were prepared as farnesyl transferase inhibitors. For example, cycloaddn. of isotonic anhydride and glycine Et ester+HCl gave 2,3,4,5-tetrahydro-1H-benzodiazepine 2,5-dione (40%), which was reduced with LAH (84%) and treated with 1-naphthyl chloride to give the amide (89%). The resulting 2,3,4,5-tetrahydro-4-(naphthalenylcarbonyl)-1H-1,4-benzodiazepine was alkylated with N-BOC-S-tritylcysteine aldehyde and converted to the HCl salt of III (62%). I and II affect ras oncogene expression and, therefore, are useful for inhibiting tumors and treating diseases associated with signal transduction pathways (no data).

transduction pathways (no data):
371150-63-9, (3R)-2,3,4,5-tetrahydro-3-(phenylmethyl)-4-[[4-(phenylmethyl)-1-piperazinyl]sulfonyl]-1H-1,4-benzodiazepine-7-carbonitrile
Ru: RCT (Reactant); RACT (Reactant or reagent) (reactant; preparation of non-imidazole benzodiazepine inhibitor; farnesyl protein transferase for treatment of cancer and other associated with signal transduction pathways)
371150-63-9 CAPLUS
1H-1,4-Benzodiazepine-7-carbonitrile, 2,3,4,5-tetrahydro-3-(phenylmethyl)-1-piperazinylsulfonyl-, (3R)- (9CI) (CA NAME)

Absolute stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:78383 CAPLUS

DOCUMENT NUMBER: 134:163059

TITLE: Substituted piperazine derivatives and other

oxazaheterocyclyl compounds useful as factor Xa/IIa

inhibitors

INVENTOR(S): Ewing, William R.; Becker, Michael R.; Choi-Sledeski,

Yong Mi; Pauls, Heinz W.; He, Wei; Condon, Stephen M.;

Davis, Roderick S.; Hanney, Barbara A.; Spada, Alfred

P.; Burns, Christopher J.; Jiang, John Z.; Li, Aiwen;

Myers, Michael R.; Lau, Wan F.; Poli, Gregory B.

Aventis Pharmaceuticals Products Inc., USA

PATENT ASSIGNEE(S): PCT Int. Appl., 460 pp.

SOURCE: CODEN: PIXD2

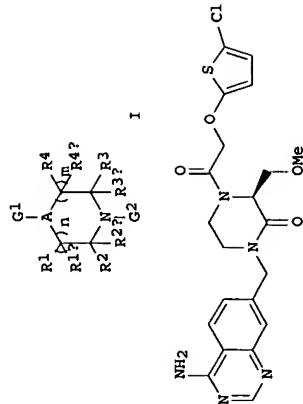
DOCUMENT TYPE: Patent

LANGUAGES: English

FAMILY ACC. NUM. COUNT: 3

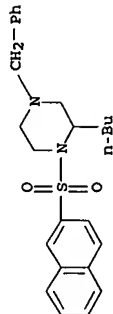
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001007436	A2	20010201	WO 2000-1B1156	20000726
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM				
RM: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2382755	AA	20010201	CA 2000-2382755	20000726
BR 2000013179	A	20020402	BR 2000-13179	20000726
EP 1208097	A2	20020529	EP 2000-951781	20000726
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 20020225	T2	20020621	TR 2002-20020225	20000726
JP 2003508353	T2	20030304	JP 2001-512520	20000726
EE 200200045	A	20030616	EE 2002-45	20000726
AU 773227	B2	20040520	AU 2000-64628	20000726
NO 2002000214	A	20020402	NO 2002-214	20020115
BG 106340	A	20021031	BG 2002-106340	20020122
ZA 2002000543	A	20030623	ZA 2002-543	20020122
PRIORITY APPLN. INFO.:			US 1999-363196	A 19990728
OTHER SOURCE(S):			WO 2000-1B1156	W 20000726
GI				



AB The invention is directed to piperazines I and their pharmaceutically acceptable salts, prodrugs, N-oxides, hydrates, and solvates [wherein A = CH or N; G1 and G2 = L1Cyl or L2Cyl; Cyl1 and Cyl2 = (un)substituted aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclyl, etc.; L1 = null, O, S, SO, SO2, or (un)substituted sulfamoyl, methylene (alkyl)keto(alkyl), carbamoyl, etc.; L2 = null or linking group; R1, R2, R3, R4, R5a, R5b, R5c, R5d, R5e, R5f, R5g, R5h, R5i, R5j, R5k, R5l, R5m, R5n, R5o, R5p, R5q, R5r, R5s, R5t, R5u, R5v, R5w, R5x, R5y, R5z, R5aa, R5ab, R5ac, R5ad, R5ae, R5af, R5ag, R5ah, R5ai, R5aj, R5ak, R5al, R5am, R5an, R5ao, R5ap, R5aq, R5ar, R5as, R5at, R5au, R5av, R5aw, R5ax, R5ay, R5az, R5ba, R5bb, R5bc, R5bd, R5be, R5bf, R5bg, R5bh, R5bi, R5bj, R5bk, R5bl, R5bm, R5bn, R5bo, R5bp, R5bq, R5br, R5bs, R5bt, R5bu, R5bv, R5bw, R5bx, R5by, R5bz, R5ca, R5cb, R5cc, R5cd, R5ce, R5cf, R5cg, R5ch, R5ci, R5cj, R5ck, R5cl, R5cm, R5cn, R5co, R5cp, R5cq, R5cr, R5cs, R5ct, R5cu, R5cv, 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R5bs, R5bt, R5bu, R5bv, R5bw, R5bx, R5by, R5bz, R5ca, R5cb, R5cc, R5cd, R5ce, R5cf, R5cg, R5ch, R5ci, R5cj, R5ck, R5cl, R5cm, R5cn, R5co, R5cp, R5cq, R5cr, R5cs, R5ct, R5cu, R5cv, R5cw, R5cx, R5cy, R5cz, R5da, R5db, R5dc, R5dd, R5de, R5df, R5dg, R5dh, R5di, R5dj, R5dk, R5dl, R5dm, R5dn, R5do, R5dp, R5dq, R5dr, R5ds, R5dt, R5du, R5dv, R5dw, R5dx, R5dy, R5dz, R5ea, R5eb, R5ec, R5ed, R5ee, R5ef, R5eg, R5eh, R5ei, R5ej, R5ek, R5el, R5em, R5en, R5eo, R5ep, R5eq, R5er, R5es, R5et, R5eu, R5ev, R5ew, R5ex, R5ey, R5ez, R5fa, R5fb, R5fc, R5fd, R5fe, R5ff, R5fg, R5fh, R5fi, R5fj, R5fk, R5fl, R5fm, R5fn, R5fo, R5fp, R5fq, R5fr, R5fs, R5ft, R5fu, R5fv, R5fw, R5fx, R5fy, R5fz, R5ga, R5gb, R5gc, R5gd, R5ge, R5gf, R5gg, R5gh, R5gi, R5gj, R5gk, R5gl, R5gm, R5gn, R5go, R5gp, R5gq, R5gr, R5gs, R5gt, R5gu, R5gv, R5gw, R5gx, R5gy, R5gz, R5ha, R5hb, R5hc, R5hd, R5he, R5hf, R5hg, R5hh, R5hi, R5hj, R5hk, R5hl, R5hm, R5hn, R5ho, R5hp, R5hq, R5hr, R5hs, R5ht, R5hu, R5hv, R5hw, R5hx, R5hy, R5hz, R5ia, R5ib, R5ic, R5id, R5ie, R5if, R5ig, R5ih, R5ii, R5ij, R5ik, R5il, R5im, R5in, R5io, R5ip, R5iq, R5ir, R5is, R5it, R5iu, R5iv, R5iw, R5ix, R5iy, R5iz, R5ja, R5jb, R5jc, R5jd, R5je, R5jf, R5jg, R5jh, R5ji, R5jj, R5jk, R5jl, R5jm, R5jn, R5jo, R5jp, R5jq, R5jr, R5js, R5jt, R5ju, R5jv, R5jw, R5jx, R5jy, R5jz, R5ka, R5kb, R5kc, R5kd, R5ke, R5kf, R5kg, R5kh, R5ki, R5kj, R5kl, R5km, R5kn, R5ko, R5kp, R5kq, R5kr, R5ks, R5kt, R5ku, R5kv, R5kw, R5kx, R5ky, R5kz, R5la, R5lb, R5lc

CN Piperazine, 2-butyl-1-(2-naphthalenylsulfonyl)-4-(phenylmethyl)- (9CI)
(CA INDEX NAME)



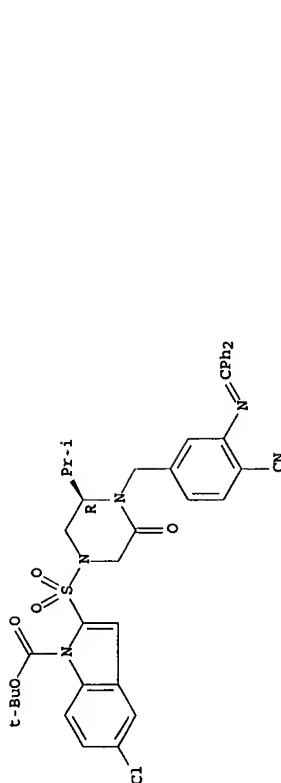
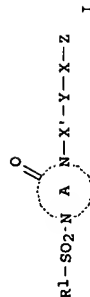
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999-511143 CAPLUS
DOCUMENT NUMBER: 131:170361
TITLE: Preparation of sulfonamides as inhibitors of activated blood coagulation factor X

INVENTOR(S): Tawada, Hiroyuki; Itoh, Fumio; Banno, Hiroshi;
Terashita, Zenichi
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 187 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9940075	A1	19990812	WO 1999-JP470	19990204
W:	AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KR, KZ, LC, LK, LR, LT, LV, MD, MT, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RM: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BU, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	CA 2317017	AA 19990812	CA 1999-2317017
	CA 2317017	AA 19990812	CA 1999-2317017	19990204
	AU 9922988	A1 19990823	AU 1999-22988	19990204
	JP 2000204081	A2 20000725	JP 1999-27053	19990204
	EP 1054005	A1 20001122	EP 1999-902829	19990204
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, FI		
	US 6403595	B1 20020611	US 2000-601660	20000803
	US 200219382	A1 20021219	US 2002-128809	20020424
	US 6680312	B2 20040120		
	PRIORITY APPLN. INFO.:			
	OTHER SOURCE(S):			
	GI	MARPAT 131:170361		



L3 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000-141494 CAPLUS
DOCUMENT NUMBER: 132:194658
TITLE: Preparation of ethylenediamine-derived pseudopeptides as reversible cysteine protease inhibitors
INVENTOR(S): Klaus, Jeffrey L.; Rasmick, David; Palmer, James T.; Kuo, Elaine Yee-Lin
PATENT ASSIGNEE(S): Aysc Pharmaceuticals, Inc., USA
SOURCE: U.S., 36 pp., Cont.-in-part of U.S. Ser. No. 474,993, abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

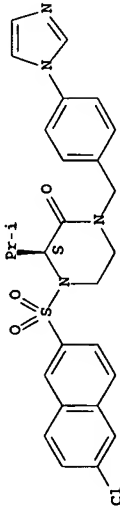
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6030946	A	20000229	US 1996-657103	19960603
TW 438591	B	20010607	TW 1996-85106569	19960601
CA 2222972	AA	19961219	CA 1996-2222972	19960603
CA 1192219	A	19980902	CN 1996-195858	19960603
ZA 9604751	A	19970108	ZA 1996-4751	19960606
			US 1995-474993	B2 19950607
			MARPAT 132:194658	
	OTHER SOURCE(S):			
	AB	N-substituted ethylenediamines, e.g., A-NR3CHR1CHR2NR4-X [A,X = acyl, acyl peptidyl, alkoxycarbonyl, alkoxy carbonyl peptidyl, sulfonyl, peptidyl, sulfamoyl, sulfamoyl peptidyl, sulfinyl, sulfinyl peptidyl, carbamoyl, and carbamoyl peptidyl; R1 = R2 = H or one of R1 and R2 is an amino acid side chain and the other is hydrogen; R3 and R4 are hydrogen or are bonded together to form (un)substituted ethylene], were prepared as reversible cysteine protease inhibitors (KI, itorsim, 100 μM). Thus, cysteine protease inhibitor N1-(4-morpholinocarbonylphenylalanyl)-2-phenethyl-N2-(phenylsulfonyl)ethylenediamine (Mu-Phe-retro-(D,L)-Hph-SO2Ph) was prepared by coupling 4-morpholinocarbonylphenylalanine with H2NCH2CH(CH2CH2Ph)NHSO2Ph HCL salt, which was obtained from N-(phenylsulfonyl)homophenylalanine by amidation and carbonyl group reduction Mu-Phe-retro-(D,L)-Hph-SO2Ph showed KI = 60, 0.52, 0.25, and 0.09 M against cathepsin B, cathepsin L, cathepsin S, and cruzain, resp.		
	IT	186412-47-3P		
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of ethylenediamine-derived pseudopeptides as reversible cysteine protease inhibitors)			
	RN	186412-47-5 CAPLUS		

AB The title compds. I [R1 represents a hydrocarbyl or heterocyclic group each optionally substituted; the ring A represents a divalent nitrogen-containing heterocycle group optionally further substituted; X' represents optionally substituted alkylene; Y represents an optionally substituted divalent cyclic group; X represents a bond or optionally substituted alkylene; and Z represents optionally substituted amino, optionally substituted imidoyl, or an optionally substituted nitrogen-containing heterocyclic group] are prepared Formulations containing a compound of this invention are given. In a test for inhibiting activity of 1-(4-amidinobenzyl)-4-(6-chloronaphthalene-2-sulfonyl)-2-piperazine hydrochloride showed IC50 of 0.05 µM.

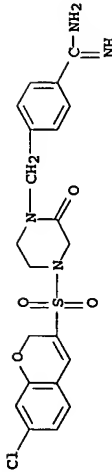
IT 239072-09-4P 239074-60-3P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of sulfonamides as inhibitors of activated blood coagulation factor X)

RN 239072-09-4 CAPLUS
 CN Piperazine, 4-[[6-chloro-2-naphthalenyl)sulfonyl]-1-[[4-(1H-imidazol-1-yl)phenyl)methyl]-3-(1-methylethyl)-, (3S) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 239074-60-3 CAPLUS
 CN Benzenecarboximidamide, 4-[[4-[(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-2-oxo-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

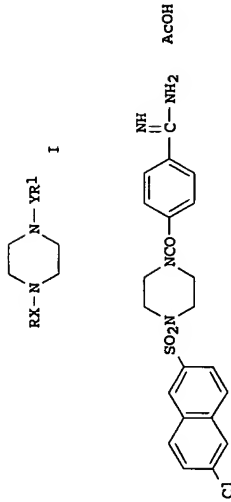


REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1999:233904 CAPLUS
 DOCUMENT NUMBER: 130:282084
 TITLE: Benzamide derivatives as factor Xa inhibitors
 INVENTOR(S): Dorich, Dieter; Juraszkyk, Horst; Wurziger, Hanns; Bernotat-Danielowski, Sabine; Melzer, Guido
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 79 pp.
 CODEN: PIXM22
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9916751
 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 DE 19743435 A1 19990408 DE 1997-19743435 19971001
 CA 2305568 AA 19990408 CA 1998-2305568 19980916
 AU 9895407 A1 19990423 AU 1998-95407 19980916
 AU 736080 B2 20010726
 EP 1025086 A1 20000809 EP 1998-948982 19980916
 EP 1025086 B1 20030625
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO
 BR 9812699 A 20000822 BR 1998-12699 19980916
 JP 2001518467 T2 20011016 JP 2000-513837 19980916
 SK 282799 B6 20021203 SK 2000-447 19980916
 RU 2194044 C2 20021210 RU 2000-110737 19980916
 AT 243681 E 20030715 AT 1998-948982 19980916
 ZA 9808937 A 19990331 ZA 1998-8937 19980930
 NO 200001687 A 20000331 NO 2000-1687 20000331
 US 6492368 B1 20021210 US 2000-509729 20000331
 PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): MARPAT 130:282084
 GI



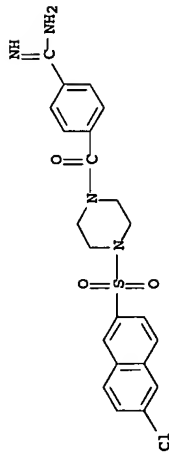
II

AB Title compds. I [X = bond, CO, (un)substituted CH2, CH2CH2, CH2CO, CH2CH2CO, CH:CHCO, NHCO; Y = (un)substituted CH2, SO2, CO, CO2, CONH; R = (un)substituted Ph; R1 = H, (un)substituted alkyl, oxalkyl, thiaalkyl, alkenyl, cycloalkyl, aryl, aryloxy, heterocyclic, aralkenyl] are inhibitors of coagulation factor Xa and can be used for preventing or treating thromboembolic disorders (no data). Thus, 4-(5-methyl-1,2,4-oxadiazol-3-yl)benzoic acid was converted to the acid chloride, treated with N-tert-butoxycarbonylpiperazine, and deblocked to give [4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]piperazin-1-ylmethanone which was treated with 8-chloro-2-naphthalenesulfonyl chloride and reduced to give the benzamide II.
 IT 222541-81-3P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of piperazinylbenzamide derivs. as factor Xa inhibitors)

RN 22541-81-3 CAPLUS
CN Piperazine, 1-[4-(aminomethyl)benzoyl]-4-[(6-chloro-2-naphthalenyl)sulfonyl]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 22541-80-2
CMF C22 H21 Cl N4 O3 S



CM 2

CRN 64-19-7
CMF C2 H4 O2



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:794998 CAPLUS

DOCUMENT NUMBER: 130:38404

TITLE: Preparation of 1-benzoyl-4-naphthalenesulfonylpiperazines and related compounds as inhibitors of activated coagulation factor X.

INVENTOR(S): Tawada, Hiroyuki; Ito, Fumio; Moriya, Norihiko;

Terashita, Zenichi

Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 313 pp.

CODEN: PIXD2

DOCUMENT TYPE: Patent

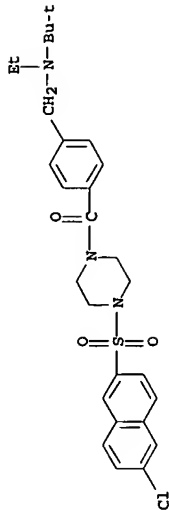
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

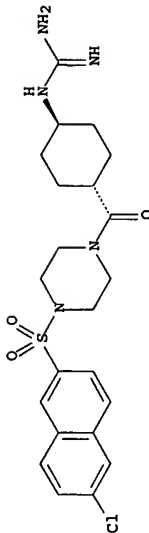
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9854164	A1	19981203	WO 1998-JP2346	19980528
W:				
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AZ	BY	CA	CN	CU
CZ	EE	GE	GM	GW
HU	ID	IL	IS	KG
KR	KZ	LC	LK	LR
LT	LV	MD	MG	MK
MN	MX	NO	NZ	PL
RU	RO	SF	SI	SK
SL	TJ	TM	TR	UA
US	UZ	VN	YU	AM
AZ	BY	KG	KZ	MD
RU	TJ	TM	TR	UA
US	UZ	VN	YU	AM
AW	GH	GM	KE	LS
MW	SD	SZ	UG	ZM
ZW	AT	BE	CH	CY
DE	DK	ES	FI	FR
GB	GR	IE	IT	LU
MC	NL	PT	SE	BF
BJ	CG	CI	CM	GA
GN	ML	MR	NE	SN
TD	CA	1998-2287292	CA 1998-2287292	19980528
AA	19981203	CA 1998-2287292	CA 1998-2287292	19980528
CA	2287292	CA 1998-2287292	CA 1998-2287292	19980528
AU	9874534	AU 1998-74534	AU 1998-74534	19980528

EP 986551 A1 20000322 EP 1998-921852 19980528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
JP 11236372 A2 19990831 JP 1998-148677 19980529
US 6359134 B1 20020319 US 1999-424892 19991130
JP 1997-142950 A 19970530
JP 1997-351806 A 19971219
WO 1998-JP2346 W 19980528
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
AB R1802AC0YXZ [R1 = (substituted) hydrocarbyl, heterocyclyl; A = (substituted) divalent N-heterocyclyl; Y = (substituted) hydrocarbylene, heterocyclene; X = bond, (substituted) alkylene; Z = substituted amino, imidoyl, N-heterocyclyl; provided that when X = bond and Z = (substituted) 6-membered N-heterocyclyl, then Y = (substituted) hydrocarbylene, unsatd. heterocyclene], were prepared. Thus, reaction of 1-(6-chloronaphthalene-2-sulfonyl)piperazine hydrochloride with 2-(4-pyridyl)-4-methyl-5-thiazolecarboxylic acid in the presence of Et3N and WSC hydrochloride in DMF gave 1-(6-chloronaphthalene-2-sulfonyl)-4-[(2-(4-pyridyl)-4-methyl-5-thiazolecarbonyl)piperazine. The latter inhibited human activated coagulation factor X with IC50 = 0.019 μM.
IT 216956-65-3P 216957-30-1P 216958-30-4P
216959-21-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 1-benzoyl-4-naphthalenesulfonylpiperazines and related compds. as inhibitors of activated coagulation factor X)
RN 216956-65-9 CAPLUS
CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(1,1-dimethylethyl)ethylaminomethyl]benzoyl]- (9CI) (CA INDEX NAME)

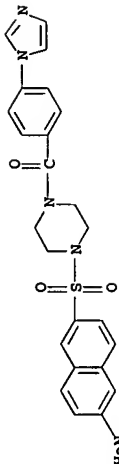


RN 216957-30-1 CAPLUS
CN Piperazine, 1-[(trans-4-[(aminomethyl)aminocyclohexyl]carbonyl]-4-[(6-chloro-2-naphthalenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Relative stereochemistry.

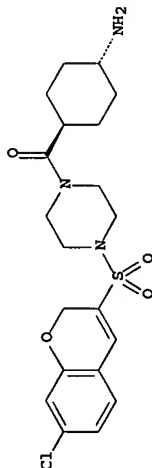


RN 216958-30-4 CAPLUS
CN Piperazine, 1-[(6-amino-2-naphthalenyl)sulfonyl]-4-[4-(1H-imidazol-1-yl)benzoyl]- (9CI) (CA INDEX NAME)



RN 216959-21-6 CAPLUS
CN Piperazine, 1-[(trans-4-aminocyclohexyl)carbonyl]-4-[4-(7-chloro-2H-1-benzopyran-3-yl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Relative stereochemistry.



● HCl

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:341547 CAPLUS
DOCUMENT NUMBER: 129116141
TITLE: Preparation of 1-(naphthylsulfonyl)-4-benzoylpiperazines and related compounds as inhibitors of Factor Xa.

INVENTOR(S): Preston, John; Stocker, Andrew; Turner, Paul;
PATENT ASSIGNEE(S): Zeneca Ltd.; UK: Preston, John; Stocker, Andrew; Turner, Paul; Smithers, Michael James; Rayner, John Wall

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

PATENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9821188	A1	19980522	WO 1997-GB3033	19971104
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MD, MG, MK, MN, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CN, GA, GN, ML, MR, NE, SN, TD, TG
CA 2266890 AA 19980522 AU 1997-2266890 19971104
AU 9748748 A1 19980603 AU 1997-48748 19971104
AU 731929 B2 20010405 EP 1997-911333 19971104
EP 937048 A1 19990825 EP 2003-11815 19971104
EP 937048 B1 20040121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
BR 9712672 A 19991026 BR 1997-12672 19971104
CN 1235597 A 19991117 CN 1997-199426 19971104
NZ 334710 A 20001124 NZ 1997-334710 19971104
JP 200104113 T2 20010327 JP 1998-522274 19971104
RU 2213732 C2 20031010 RU 1999-112135 19971104
EP 1358909 A1 20031105 EP 2003-11815 19971104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
AT 258167 E 20040215 AT 1997-911333 19971104
PT 937048 T 20040531 PT 1997-911333 19971104
ES 2213208 T3 20040816 ES 1997-911333 19971104
TW 458968 B 20011011 TW 1997-86116467 19971105
ZA 9710062 A 19980508 ZA 1997-10062 19971107
NO 9902230 A 19990507 NO 1999-2230 19990507
KR 2000053128 A 20000825 KR 1999-704055 19990507
US 6300330 B1 20011009 US 1999-297768 19990507
US 2003195203 A1 20031016 US 2001-963686 20010927
GB 1996-23283 A 19961108
GB 1997-15893 A 19970729
EP 1997-911333 A3 19971104
WO 1997-GB3033 W 19971104
US 1999-297768 A1 19990507

PRIORITY APPLN. INFO.:

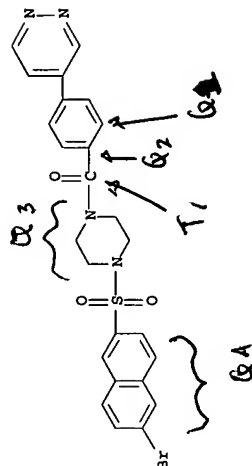
OTHER SOURCE(S): MARPAT 129:16141

AB ABX1T1(R2)L1T2(R3)X2Q [I; A = (substituted) 5-6 membered heterocaryl; B = (substituted) phenylene; T1, T2 = CH, N; ≥1 of T1, R2 = N; X1 = SO₂, CO, C(R4)2, O, S; R4 = H, alkyl; L1 = alkylene, alkylencarbonyl; R2, R3 = H, alkyl; R2R3 = alkylene, CH2CO; Q = (substituted) Ph, naphthyl, phenylalkyl, phenylalkenyl, phenylalkenyl, heterocyclyl; with proviso(s), were prepared thus, Me 4-(4-pyrimidinyl)benzoate (preparation given) was converted to the acid chloride which was stirred with 1-(6-bromonaphth-2-yl)sulfonylpiperazine hydrochloride and Et3N in CH2Cl2 to give 1-(6-bromonaphth-2-ylsulfonyl)-4-[4-(4-pyrimidinyl)benzoyl]piperazine. I inhibited Factor Xa with IC50 = 0.001-25 μM.

IT 207798-73-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 1-(naphthylsulfonyl)-4-benzoylpiperazines and related compounds as inhibitors of factor Xa)

RN 207798-73-0 CAPLUS
CN Piperazine, 1-[(6-bromo-2-naphthalenyl)sulfonyl]-4-[4-(4-pyridazinyl)benzoyl]- (9CI) (CA INDEX NAME)



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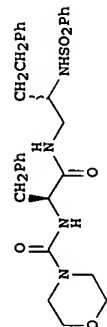
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:124458 CAPLUS
DOCUMENT NUMBER: 126:131786
TITLE: Preparation of ethylenediamine-derived reversible

INVENTOR(S): Klaus, Jeffrey Lee; Krasnick, David; Palmer, James T.;
Kuo, Elaine Yee-Lin
PATENT ASSIGNEE(S): Arris Pharmaceutical Corporation, USA
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION: NOT IN IDS

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 9640737 A1 19961219 WO 1996-US8559 19960603
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
ES, FI, GB, GE, HU, IL, IS, JP, KE, KP, KR, KZ, LK, LR, LS,
LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD,
SE, SG
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GN, GY,
TW 438591 B 20010607 TW 1996-85106569 19960601
CA 2222972 AA 19961219 CA 1996-85106569 19960603
AU 9659755 A1 19961230 AU 1996-59755 19960603
AU 723658 B2 20000831
EP 832099 A1 19980401 EP 1996-917069 19960603
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI
CN 1192219 A 19980902 CN 1996-195858 19960603
JP 11507045 T2 19990622 JP 1996-501116 19960603
ZA 9604751 A 19970108 ZA 1996-4751 19960606
NO 9705742 A 19980205 NO 1987-5742 19971205
PRIORITY APPLN. INFO.: US 1995-474993 A 19950607
WO 1996-US8559 W 19960603
OTHER SOURCE(S): MARPAT 126:131786

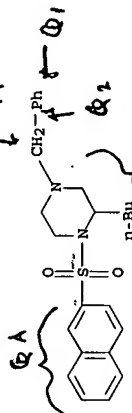


AB A reversible cysteine protease inhibitor comprising two N-substituents linked via an ethylenediamine or a substituted ethylenediamine, wherein the dissociation constant for inhibition, K_i , of a protease with the inhibitor, is no greater than about 100 μ M, and wherein said N-substituents are selected from the group consisting of acyl, acylpeptidyl, sulfonylpeptidyl, alkylsulfonyl, alkylsulfonylpeptidyl, sulfonyl, sulfonylpeptidyl, carbamoyl, sulfamoyl, sulfamoylpeptidyl, sulfinyl, sulfinylpeptidyl, carbamoyl, and carbamoylpeptidyl. Thus, mixed anhydride formation of N-(4-morpholinyl)phenylalanine with iso-Bu chloroformate and coupling with NHCH(CH₂CH₂Ph)/CH₂NHSO₂Ph (prepared in 3 steps from

homophenylalanine and PhSO₂Cl) gave 89% ethylenediamine inhibitor I. Prepared compds., including I, were tested for inhibitory activity against cathepsin B, cathepsin L, cathepsin S, and cruzain.

IT 186412-47-59
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(Preparation of ethylenediamine-derived reversible cysteine protease inhibitors)

RN 186412-47-5 CAPLUS
CN Piperazine, 2-butyl-1-(2-naphthalenylsulfonyl)-4-(phenylmethyl)- (9CI)
(CA INDEX NAME)



L3 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:139052 CAPLUS
DOCUMENT NUMBER: 112:139052

TITLE: Preparation of arylsulfonylpiperazines as antiinflammatories

INVENTOR(S): Abou-Charbia, Magid A.

PATENT ASSIGNEE(S): American Home Products Corp., Japan

SOURCE: U.S., 4 pp.

CODEN: USXXAM

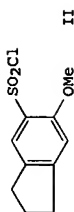
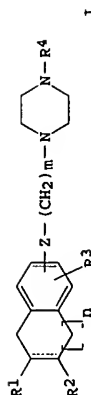
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
US 4857644 A 19890815 US 1988-204459 19880609
PRIORITY APPLN. INFO.: CASREACT 112:139052; MARPAT 112:139052
OTHER SOURCE(S):

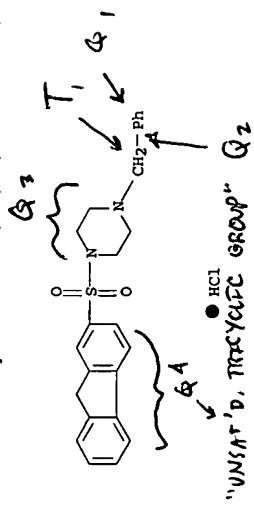


AB The title compds. [I; R1, R2 = H, Cl-6 alkyl, Ph; R1R2 = (CH₂)₄, CH₂CH₂CH₂CH₂, bond; R3 = H, halo, Cl-6 alkyl, alkoxy; R4 = PhCH₂, (un)substituted Ph, pyridinyl, pyrimidinyl, pyrazinyl; Z = SO₂, SO₂NRS; R5 = H, Cl-6 alkyl; m = 0-4; n = 0-2] and their pharmaceutically acceptable salts were prepared as antiinflammatories, e.g., by acylation of piperazines with arylsulfonyl chlorides. Thus, a solution of 5-methoxyindan in MeCN was added dropwise over 0.5 h to a cooled and stirred solution of ClSO₃H,

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followed by heating 3 h at 50-60°. The intermediate chlorosulfonated indan (II) in CH2Cl2 was treated with 1-(2-pyrimidinyl)piperazine dihydrochloride and Et3N, and stirred overnight to give I (R1, R2 = H, R3 = 6-MeO; Z = SO2; R4 = 2-pyrimidinyl, m, n = 0) which was converted to its hydrochloride. The latter at 50 mg/kg p.o. gave 55% inhibition of the acute inflammatory response in the rat carrageenan paw edema assay.

IT 125295-88-7p
 RU: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USSS (Uses)
 (preparation of, as antiinflammatory)
 RN 125295-88-7 CAPLUS
 CN Piperazine, 1-(3H-fluoren-2-ylsulfonyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



=> LOG HOLD	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	61.08	61.72
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-8.76	-8.76

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 14:49:28 ON 24 MAR 2005